

ABSTRACT OF THE DISCLOSURE

The present invention is a thermal blanketing system used to manage the temperature of individual electrochemical cells within the modules of a single battery system. The present invention uses either a thin walled tube made from either a flexible or rigid material (i.e. plastic, etc.) which is wound in a fashion so at least one side of the tube makes contact with each individual cell, or uses a plurality of individual thermal jackets placed between battery cells such that at least some of the thermal jackets are contacted by at least two of the cells within the battery. In each of the above embodiments, each tube or jacket is filled with a thermal management fluid, chosen for its thermal management characteristics, and which flows throughout the tube or jackets, and acts either as a heat sink absorbing heat from the batteries to cool them, or as a heat source providing heat to the batteries as needed. Each tube or jacket has an inlet and exit manifold to allow the fluid to flow, and a pump is used to provide the flow and maintain pressure within the tubing or jackets.

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